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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,951	03/31/2004	Rano R. Wells II	DC-105US	8355	
24314	7590 03/22/2006		EXAMINER		
JANSSON, SHUPE, MUNGER & ANTARAMIAN, LTD			MILLER, JONATHAN R		
245 MAIN S RACINE, W			ART UNIT	PAPER NUMBER	
•			3653		
			DATE MAILED: 03/22/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/814,951	WELLS, RANO R.	
Office Action Summary	Examiner	Art Unit	
	Jonathan R. Miller	3653	<u> </u>
- The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. ely filed the mailing date of this communication (35 U.S.C. § 133).	•
Status			
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allowant closed in accordance with the practice under <i>E</i> .	_ action is non-final. nce except for formal matters, pro		5
Disposition of Claims			
4) ☐ Claim(s) 1-10 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw 5) ☐ Claim(s) 1-5 is/are allowed. 6) ☐ Claim(s) 6-10 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or Application Papers 9) ☐ The specification is objected to by the Examine	vn from consideration. r election requirement.		
10) ☐ The drawing(s) filed on 3/31/04 is/are: a) ☐ accomplicant may not request that any objection to the objection to the deplacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Explanation is objected to be added to be	cepted or b) objected to by the drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	: 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119			
 12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of 	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No d in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892)	4) 🔲 Interview Summary	(PTO-413)	
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 20040811. 	Paper No(s)/Mail Da		

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 6, 7, 9 and 10 are rejected under 35 U.S.C. 102(b) as being anticipated by Stelzer. The reference discloses a duct shell (1) made of non-magnetic material and defining a duct; a magnet mounted on the outside of the duct shell (col. 3, lines 22+); and a steel pole piece (2) protruding from the magnet through the duct shell into the duct, whereby the pole piece modifies the magnetic field such that an effective field substantially fills a cross-section of the duct at the pole piece (col. 2, lines 5+; col. 3, lines 15+).
- 3. With regards to claim 7, the reference discloses the magnet is an electromagnet (col. 3, lines 15+).
- 4. With regards to claim 9, the reference discloses the pole piece includes a tapered leading edge, whereby conveyed material does not hang up on the pole piece (col. 4, lines 42+).
- 5. With regards to claim 10, the reference discloses the duct shell has a substantially rectangular cross-section (Fig. 1).
- 6. Claims 6 and 7 are rejected under 35 U.S.C. 102(b) as being anticipated by Robinson.

 The reference discloses a duct shell (114) made of non-magnetic material and defining a duct; a magnet (112) mounted on the outside of the duct shell; and a steel pole piece (116) protruding from the magnet through the duct shell into the duct, whereby the pole piece modifies the

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magnetic field such that an effective field substantially fills a cross-section of the duct at the pole piece (col. 5, lines 8+).

7. With regards to claim 7, the reference discloses the magnet is an electromagnet (col. 5, lines 8+).

Claim Rejections - 35 USC § 103

- 8. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 9. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over Stelzer in view of Stowe. Stelzer fails to disclose the duct shell is of stainless steel. Stowe discloses the duct shell is of stainless steel (col. 2, lines 45+). At the time of the invention, it would have been obvious to one of ordinary skill in the art to utilize a duct shell made of stainless steel in a magnetic separating apparatus because of austenitic stainless steel's non-magnetizable properties. Stelzer and Stowe are analogous art as they are from the same field of endeavor: magnetic separators.

Allowable Subject Matter

- 10. Claims 1 5 are allowed.
- 11. The following is a statement of reasons for the indication of allowable subject matter: the prior art does not disclose or render obvious a porous membrane mounted across the inside of the duct in a plane substantially parallel to the general flow of conveyed material and dividing the duct into a material side and an air-supply side, an air-supply connection secured with respect to the duct shell to increase pressure in the air-supply side such that air flowing from the air-supply

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side to the material side through the porous membrane assists movement of conveyed material

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through the duct; a magnet mounted on the outside of the duct shell; and a steel pole piece

protruding from the magnet through the duct shell into the duct in combination with the other

elements of claim 1.

Conclusion

12. The prior art made of record and not relied upon is considered pertinent to applicant's

disclosure.

Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Jonathan R. Miller whose telephone number is (571) 272-6940.

The examiner can normally be reached on M-F: 8:30AM-5:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Kathy A. Matecki can be reached on (571) 272-6951. The fax phone number for the

organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

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Kathy Matecki

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